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COMPLETE SPECIFICATION.

Improvements in Invalid Bedsteads, Ambulances, and the like.

I, GEORGE PARROTT, of Bicester in the County of Oxfordshire, Carriage Builder do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

5 My invention relates to improvements in invalid bedsteads, ambulances and the like and has for its object to further perfect the invalid bedstead described in the Specification of my former Letters Patent No. 12,119 dated the 30th of July 1889.

My invention consists in providing means whereby a patient may be raised from his bed for the purpose of changing the bed clothes without having to handle him or
10 otherwise interfering with his posture or rest.

In carrying my invention into practice I provide two iron bars or tubes one on each side of the bedstead formed of two jointed parts and supporting the sheet or blanket upon which the invalid rests. For this purpose the two longitudinal and the upper edges of the said sheet or blanket are covered over so as to form cylindrical tubular
15 sheaths through which are passed suitable rods which can be easily withdrawn therefrom whenever required. Suitable eyelets are formed at regular intervals in the sheet or blankets close to the inner edge of the rods and through them is passed one end of a strap wound around the jointed bars or tubes aforesaid and serving to attach the rods thereto the said straps being furnished with buckles and perforated ends to fasten
20 them in position that is to say allowing of the sheet or blanket being more or less tightened or slackened. These jointed bars or tubes are guided and supported at their free ends by roller bearings forming an integral part of a lifting bar so that the said jointed bars may be raised or lowered at their other ends *i.e.* the ends nearest to the head of the bedstead. The above mentioned jointed bars or tubes are connected by
25 means of slotted plates and T headed bolts to a frame likewise jointed in the centre and the lower end of which is capable of sliding to and fro upon suitable rollers fixed to the longitudinal bars of the bedstead as described in the Specification of my former Letters Patent, while the same frame is connected to a swivel operated by a vertical screw placed at the head of the bedstead and described in the Specification above
30 described. The said frame is further supported by a rod pivotted to a post fixed to the bedstead. The jointed bars or tubes are further provided with a movable sleeve which when pushed over the joint renders the bars rigid such bars being moved with the blanket carrying the invalid in their raised position. The sliding frame is connected to the jointed bars or tubes aforesaid by means of props the lower ends of
35 which are pivotted to the said frame while their upper ends are enlarged and slotted and engage with a pin fixed to the jointed bars.

And in order that my invention may be more fully understood I have shown the same in the accompanying drawings in which

Figs. 1, 2, 4 & 5 are side views of my improved invalid bedstead showing respectively
40 the bed in a collapsed or level position the same with the head only raised, the entire bed in a raised position lastly the same with the foot and head raised but bent in the centre.

Fig. 3, is an end view of Fig. 1.

Fig. 6 is a plan of the sheet or blanket showing its mode of attachment to the
45 jointed bars or tubes.

B is my improved bedstead carried on wheels as shown, and the front legs *l* of which can be folded under when the former has to be wheeled along. P is the rear bed part carrying a collar *c* at the top which holds the upper part of the screw S furnished with a handle *h* at the top and the bottom end of which rests centrally
50 upon the transverse rail of the head of the bedstead. Upon this screw can move a swivel nut *n* connected to the upper end *l* of the sliding frame F jointed at *a* and the

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lower end e^1 of which can move to and fro upon the roller $r r \dots$ &c. To the outer end of this frame is pivoted to the lower extremity of a prop or link p the upper end of which is enlarged and slotted as shown and engages with a pin d fixed to the jointed bars $b b^1$. At a are likewise jointed the lifting bars L with bent ends or bars g carrying a slotted head f in which is fixed a pivoted roller upon which and through 5 the said slot passes the free ends of the bars $b b^1$ this bar g acting as a guide end a support for the bars $b b^1$. The sliding frame F is further supported by a link i jointed thereto at one end while its other end is similarly jointed to a short upright bar j fixed to the bedstead. The bars $b b^1$ are jointed at k upper ends being connected by means of a **T** headed bolt m to a slotted plate o fixed to the frame F . A sleeve g 10 is provided to slide over and away from the joint and serves either to render the two jointed parts $b b^1$ rigid or to loosen them. This sleeve is used when it is required to raise the patient in the position shown in Fig. 4 the swivel nut having been first screwed up to its highest position on the screw S . The sheet or blanket l has its longitudinal stop edges curved and sewn to form sheaths through which the jointed 15 rods $v v^1$ and the rod v^2 shown in dotted lines in Fig. 6 are passed. Slots $u u^1$ &c. are formed at intervals in the sheet or blanket along the inner edge $v v^1 v^2$ through which straps are inserted and buckled to the jointed bars $b b^1$ as clearly shown in Fig. 6. The component parts of the bedstead are moved by the screw S in order to obtain the various positions shown in the drawings, with the exception of the raising of the foot 20 of the bed which is effected independantly of the said screw by the bars g and the lifting bars L . As a particular application of my invention I may use it as an ambulance.

Having thus particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I 25 claim is.

1. In an invalid bedstead ambulance and the like the combination of the bedstead carried on wheels B sliding frame F swivel nut n link i bar j slotted plate o **T** headed bolt m jointed bars b and b^1 and sleeve g with an upright screw S furnished with a handle h . for the purpose of raising the patient bodily without interfering with his 30 posture and rest substantially as and for the purpose described.

2. In an invalid bedstead ambulance or the like the combination of the bedstead B , sliding frame F slotted prop p lifting bar L with bent support g and tubular bars $b b^1$ for the purpose of raising the feet of the patient without disturbing his body 35 substantially as and for the purpose described.

3. The improved invalid bedstead or ambulance arranged constructed and operating substantially as and for the purpose described and shown in the drawings.

Dated this 16th day of October 1890.

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